

FIG. 2

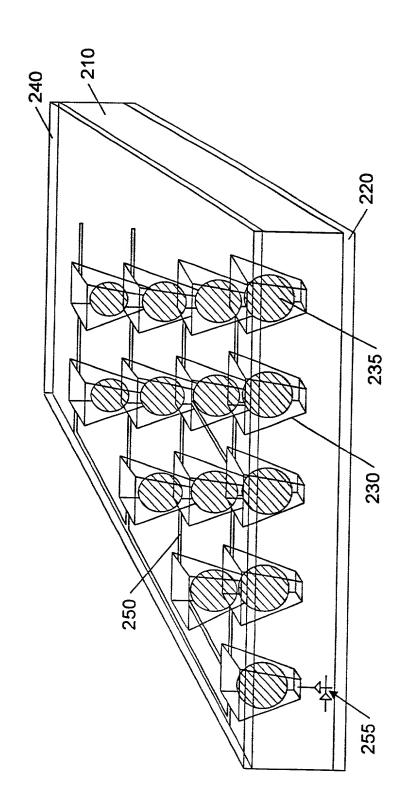


FIG. 3

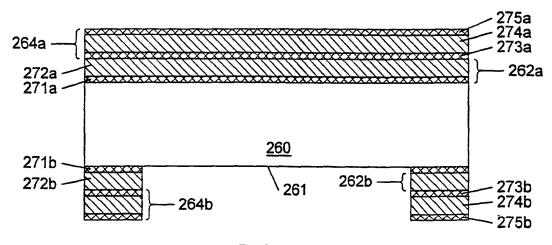


FIG. 4A

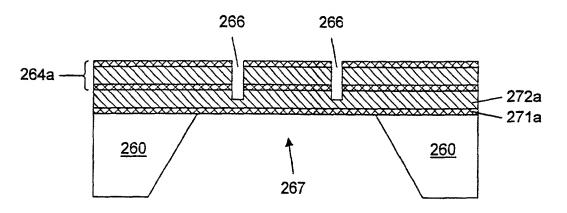


FIG. 4B

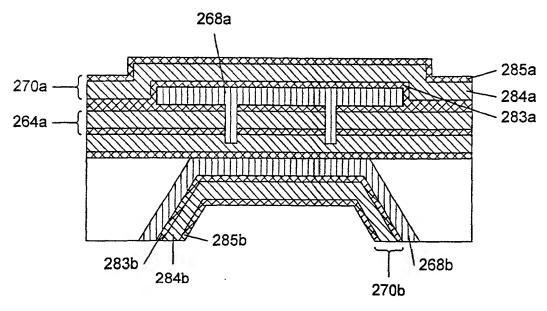


FIG. 4C

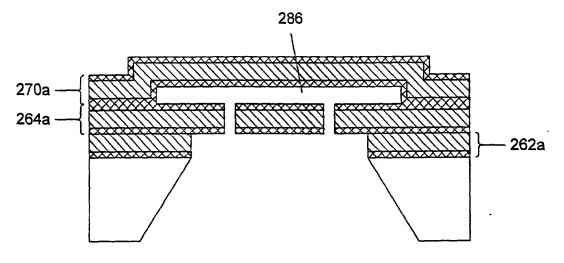


FIG. 4D

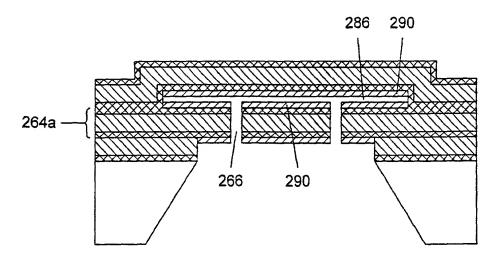


FIG. 4E

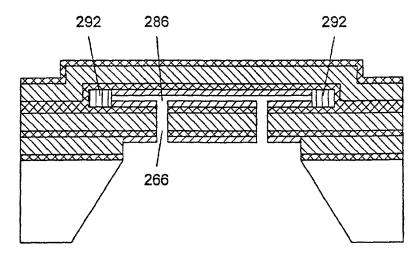
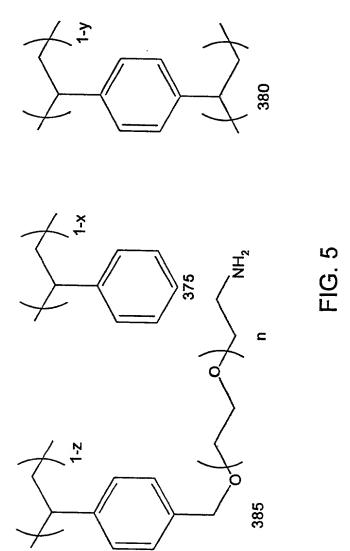
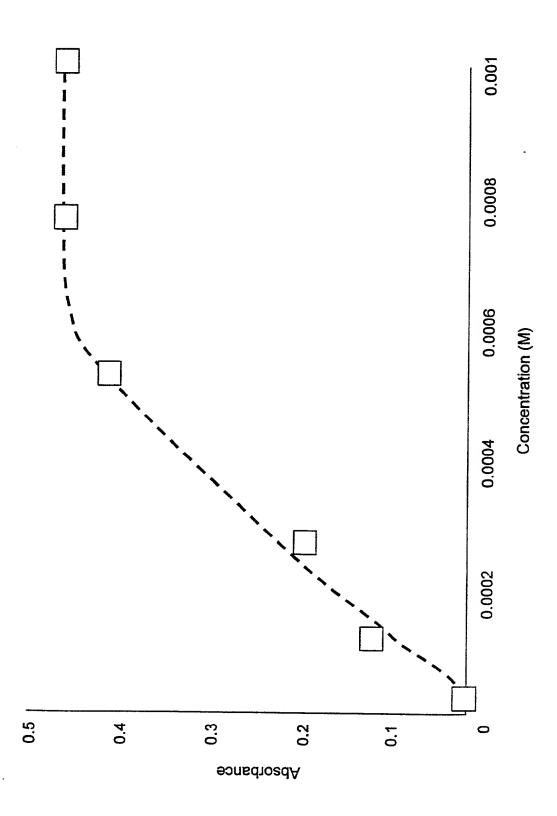


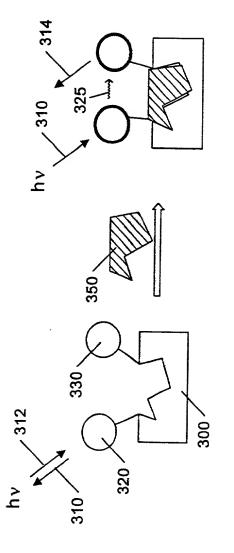
FIG. 4F



o-cresolphthalein complexone

FIG. 6





.<u>G</u>.

$$\begin{array}{c} HO \\ OH \\ OH \\ OH \\ \hline \\ 510 \\ \end{array}$$

FIG. 9

Peptides

Nucleotides

$$\begin{array}{c|c} H_2N-R_2-NHtBOC \\ \hline 420 \\ \hline \end{array}$$

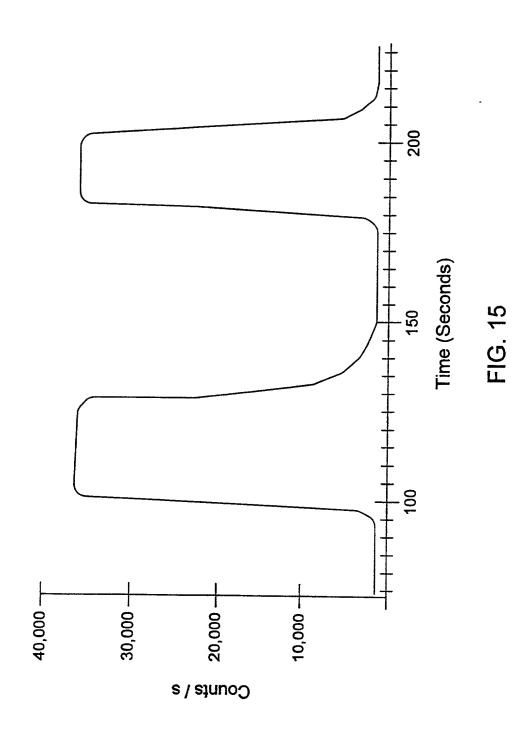
FIG. 11

FIG. 12

FIG. 13

FIG. 14





pH	RESIN:	Blank	Alizarin	o-Cresol- phthalein	Fluorescein	Alizarin-Ce ³⁺
2	none	R G S B	R G B	R G B	R G B	R G B
2	Ca ²⁺	R G B	R G B	R G B	R G S B	R G B
7	none	R G B	R G	R G B	R G B	R G B
7	Ca ²⁺	R G B	R G B	R G B	R G B	R G B
7	F ·	R G B	R G B	R (Э в	R G B	R G B
12	none	R G B	R G B	R G B	R G B	R G B
12	Ca ²⁺	R S B	R G B	R G XX B	R G X B	R G B
12	F ·	R G B	R G B	R G B	R G XX	R G B

FIG. 16

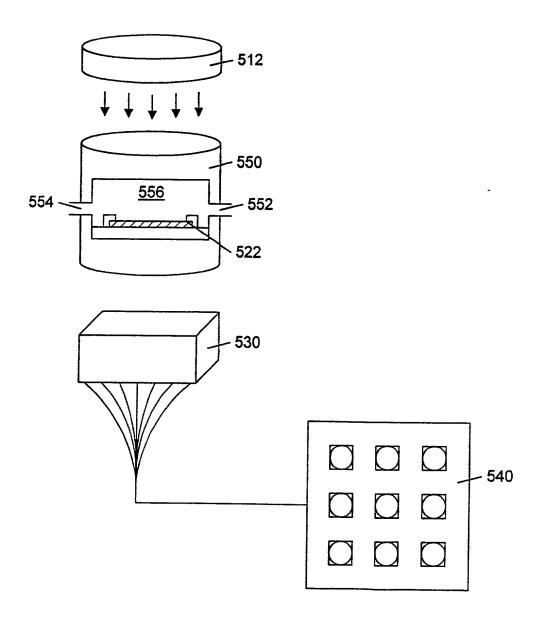


FIG. 17

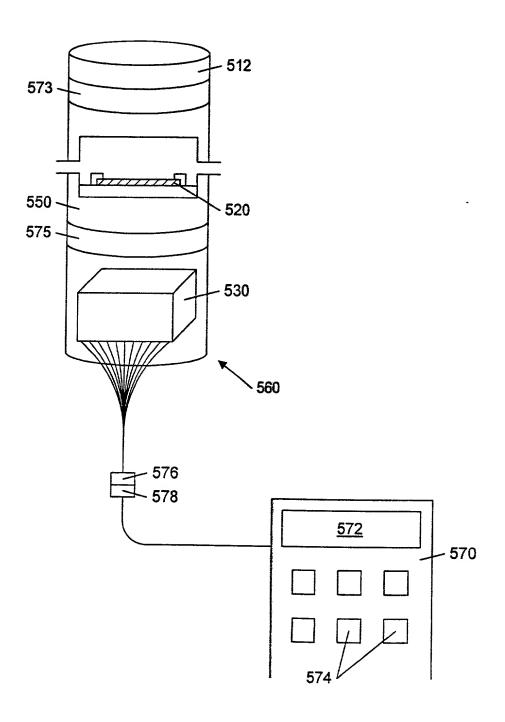


FIG. 18

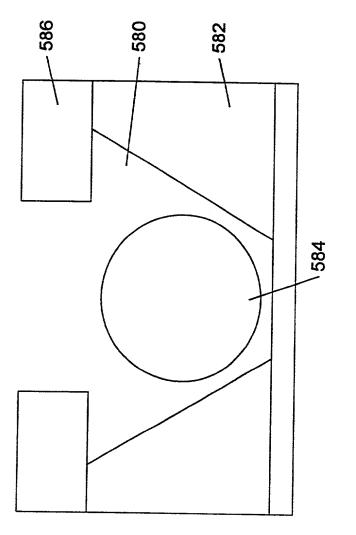


FIG. 19

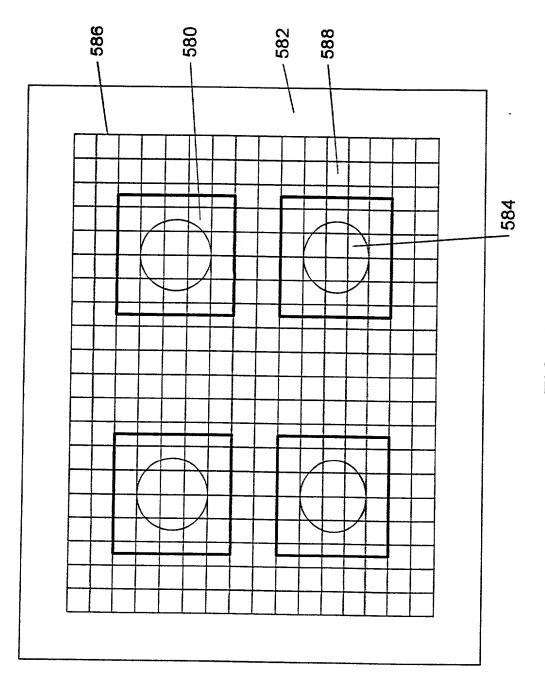
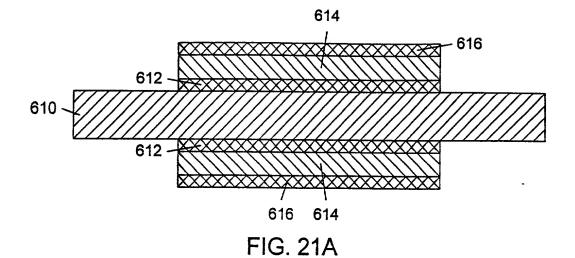
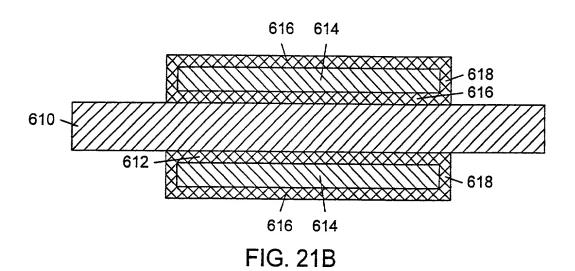


FIG. 20





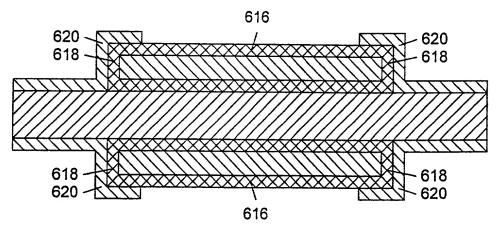


FIG. 21C

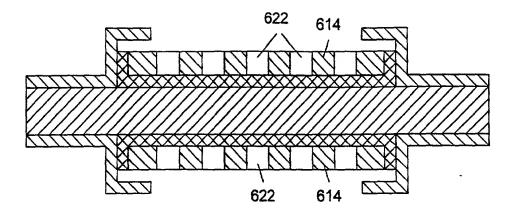
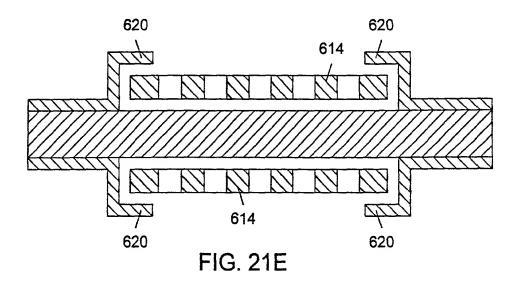


FIG. 21D



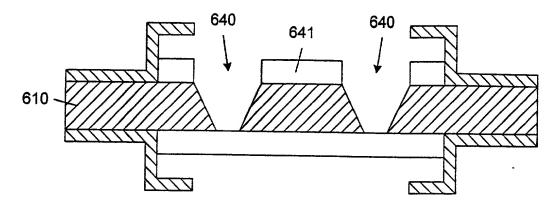


FIG. 21F

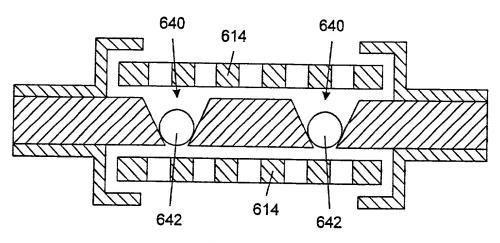
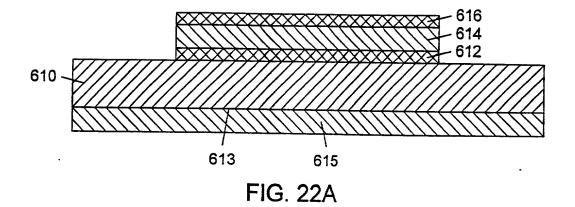


FIG. 21G



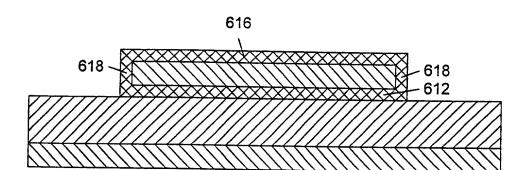


FIG. 22B

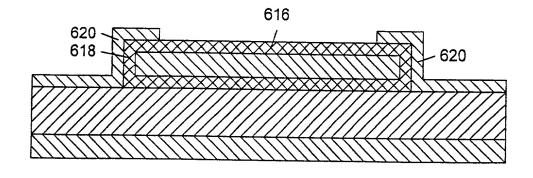
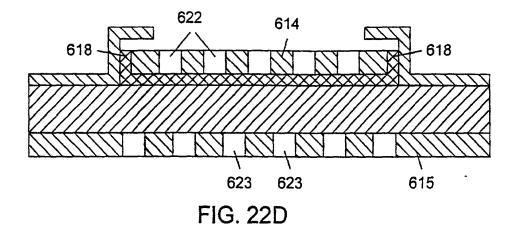


FIG. 22C



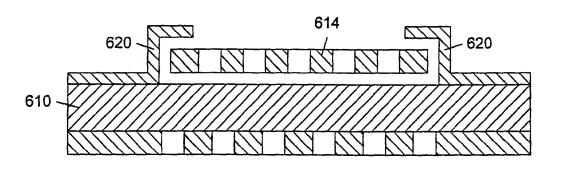


FIG. 22E

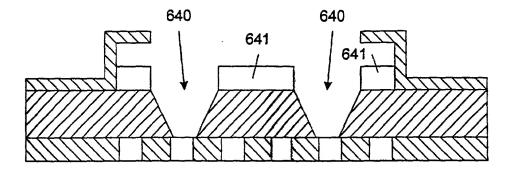


FIG. 22F

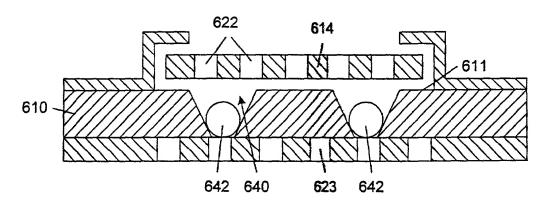


FIG. 22G

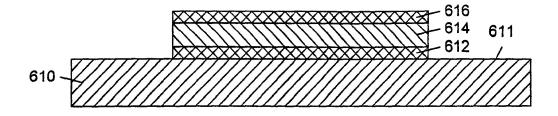


FIG. 23A

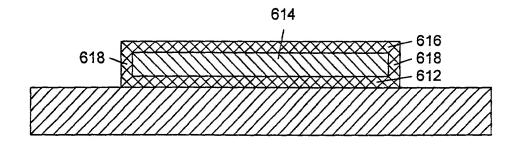


FIG. 23B

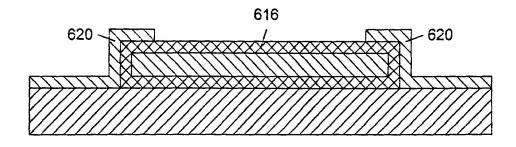


FIG. 23C

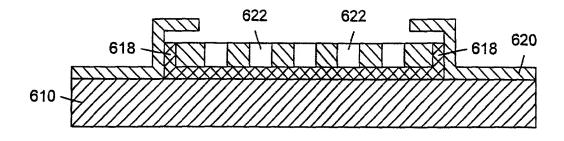


FIG. 23D

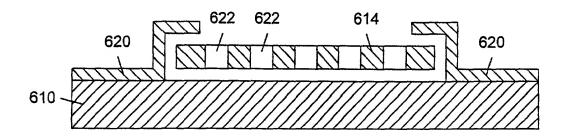


FIG. 23E

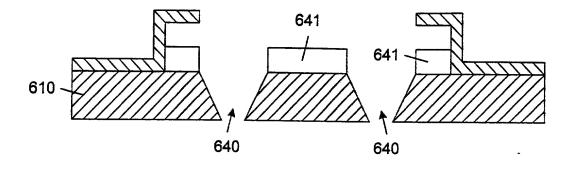


FIG. 23F

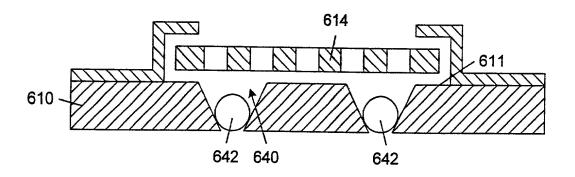
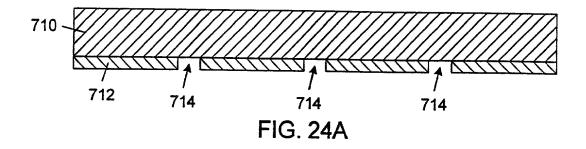


FIG. 23G



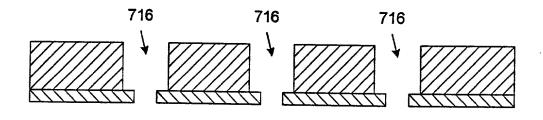


FIG. 24B

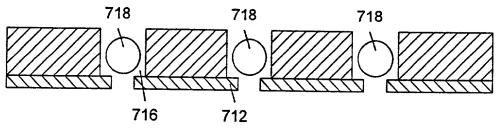


FIG. 24C

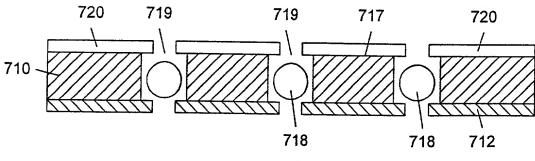
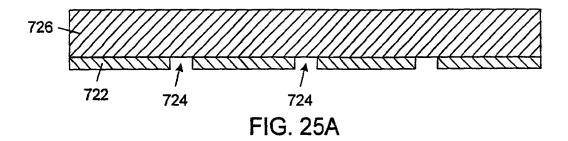


FIG. 24D



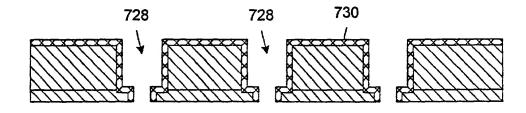
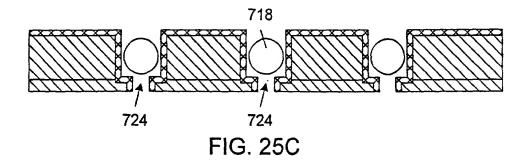


FIG. 25B



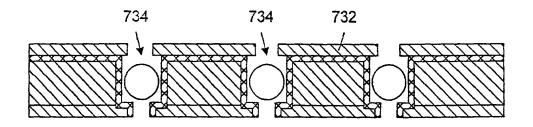
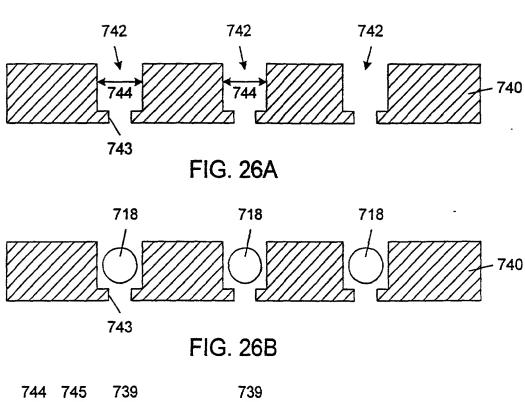


FIG. 25D



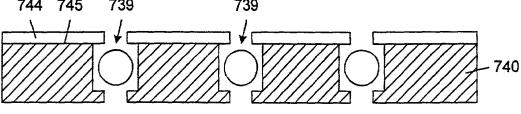
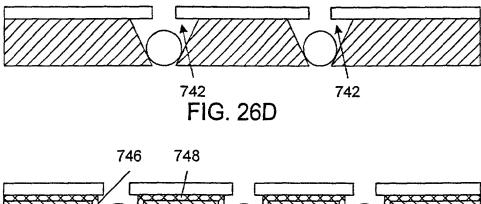
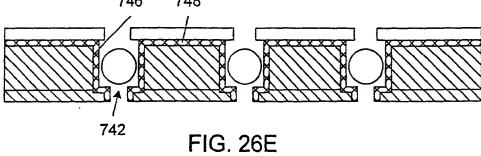


FIG. 26C





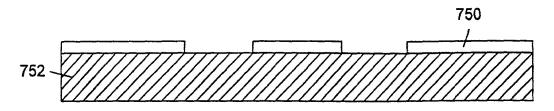


FIG. 27A

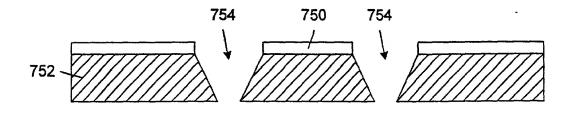


FIG. 27B

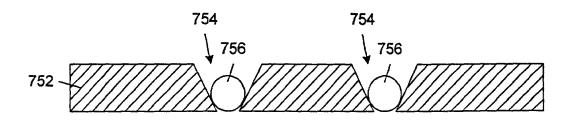
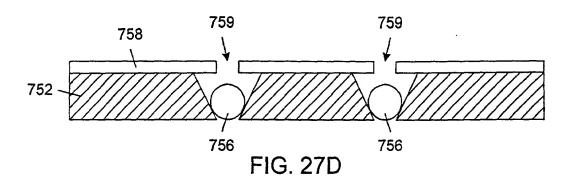
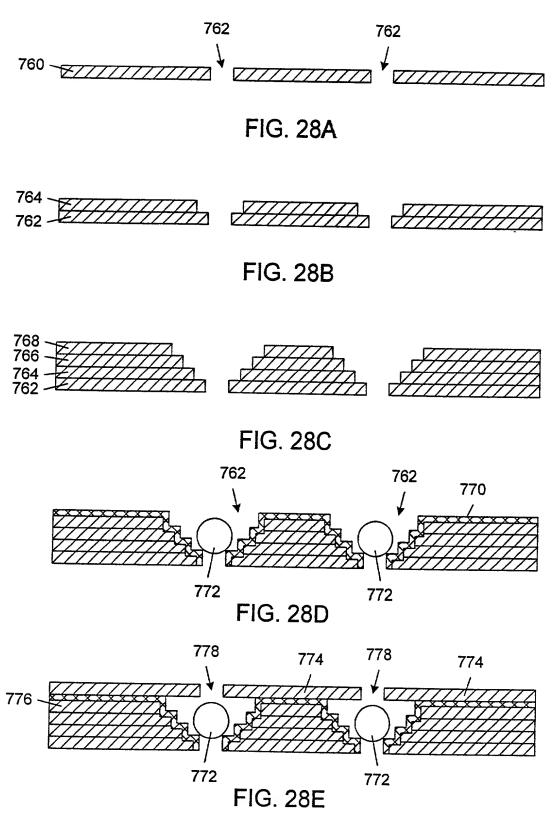


FIG. 27C





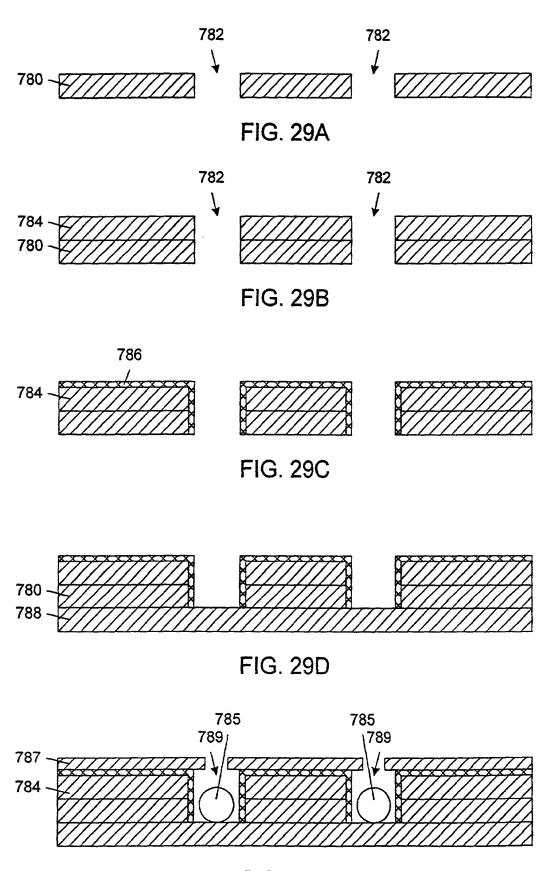
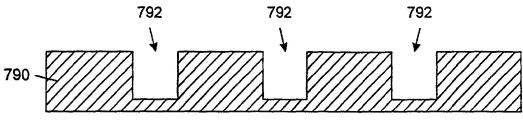
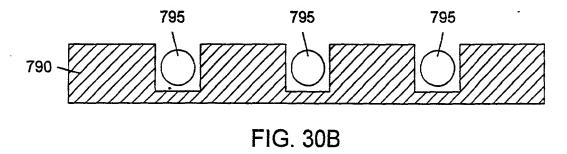


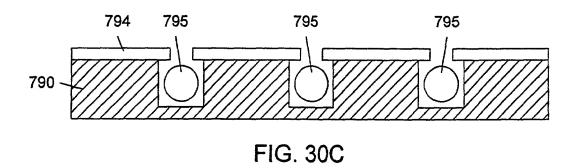
FIG. 29E



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FIG. 30A





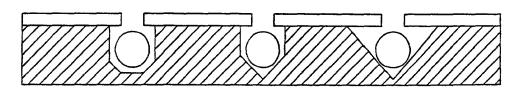


FIG. 30D

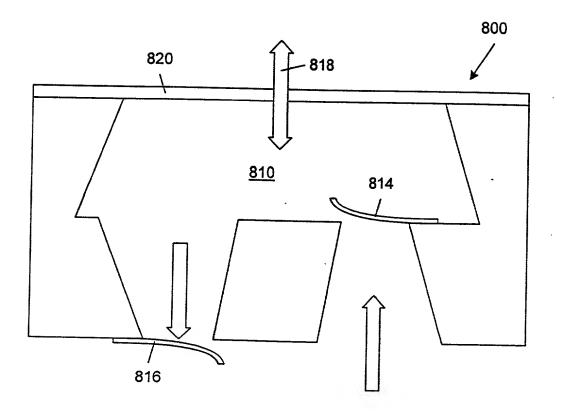


FIG. 31

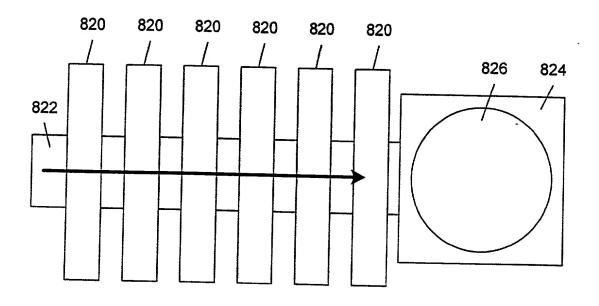
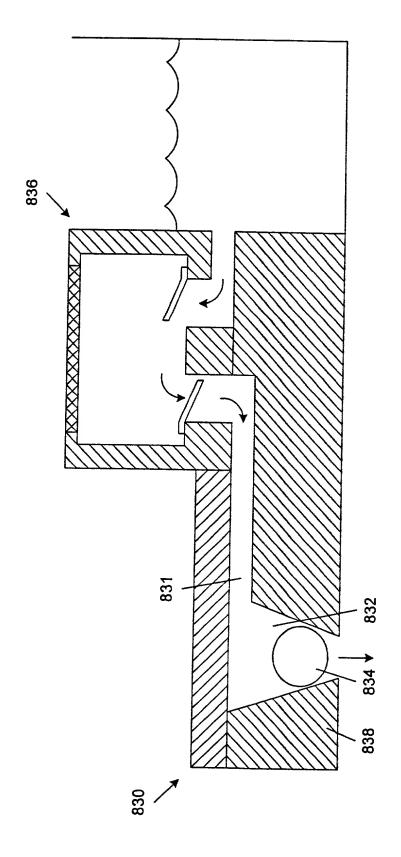


FIG. 32



-IG. 33

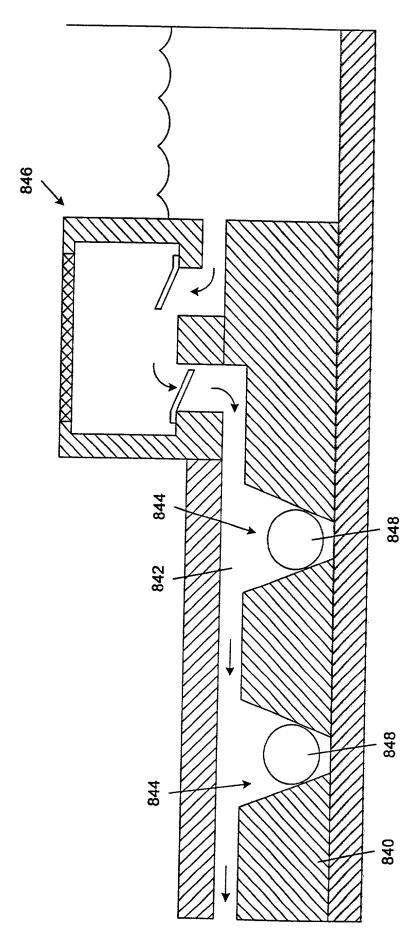


FIG. 34

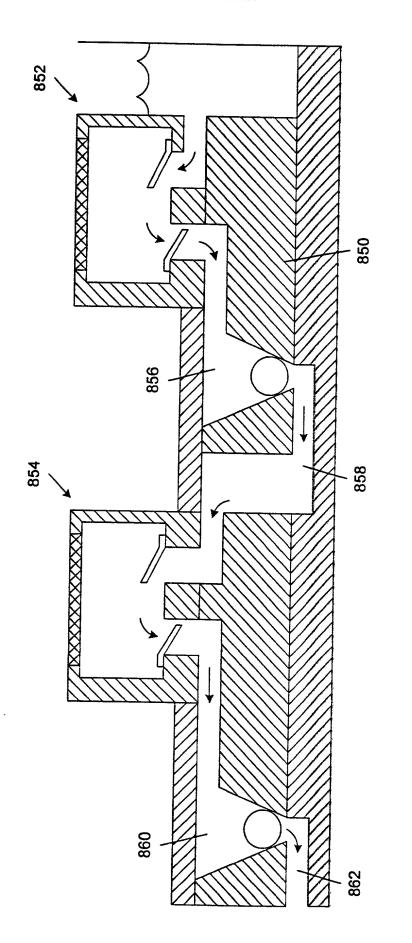


FIG. 35

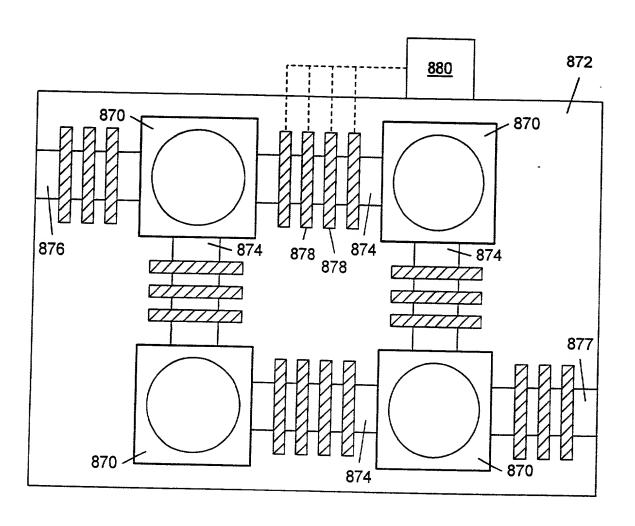
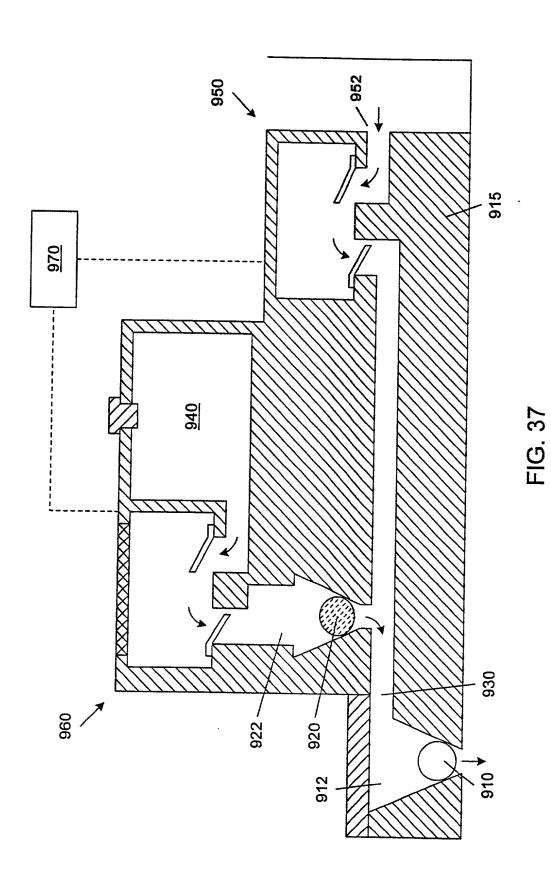
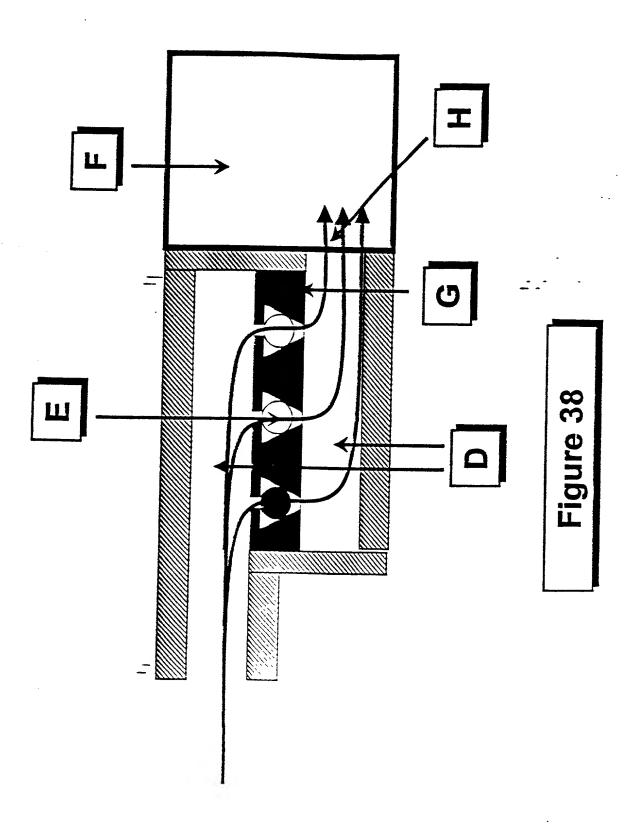
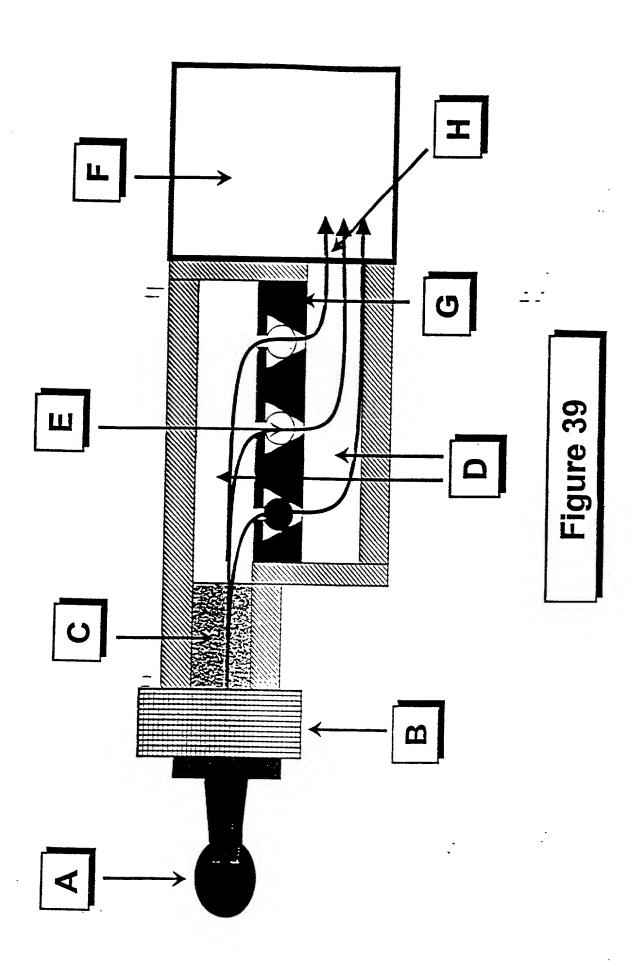
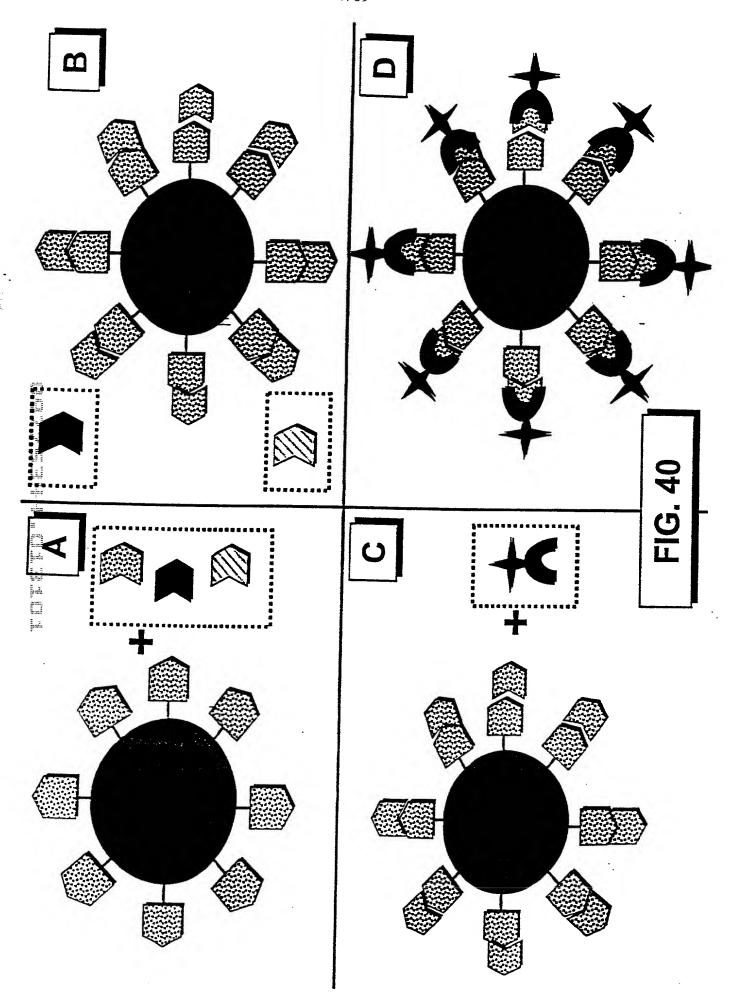


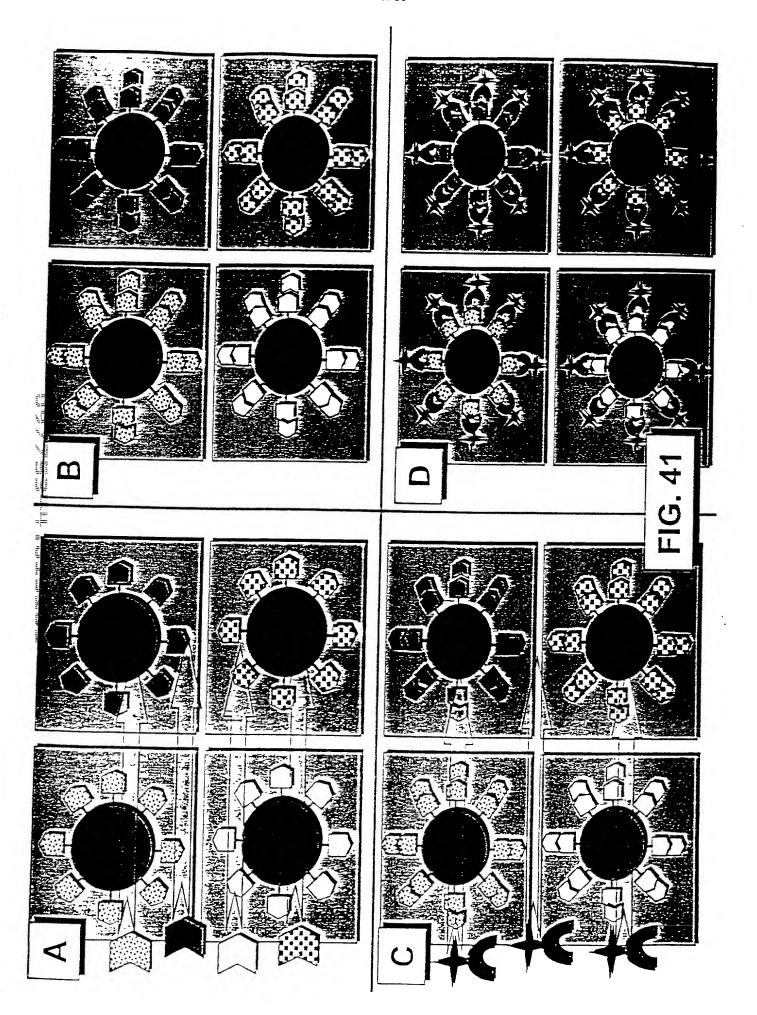
FIG. 36



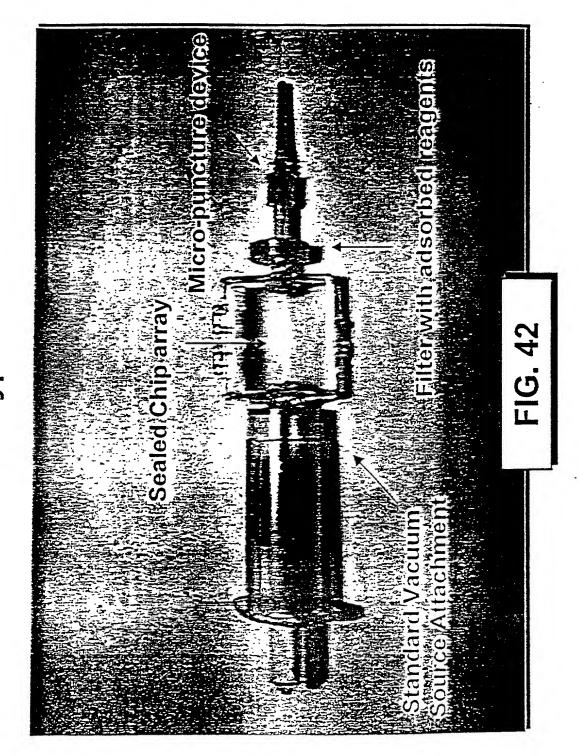


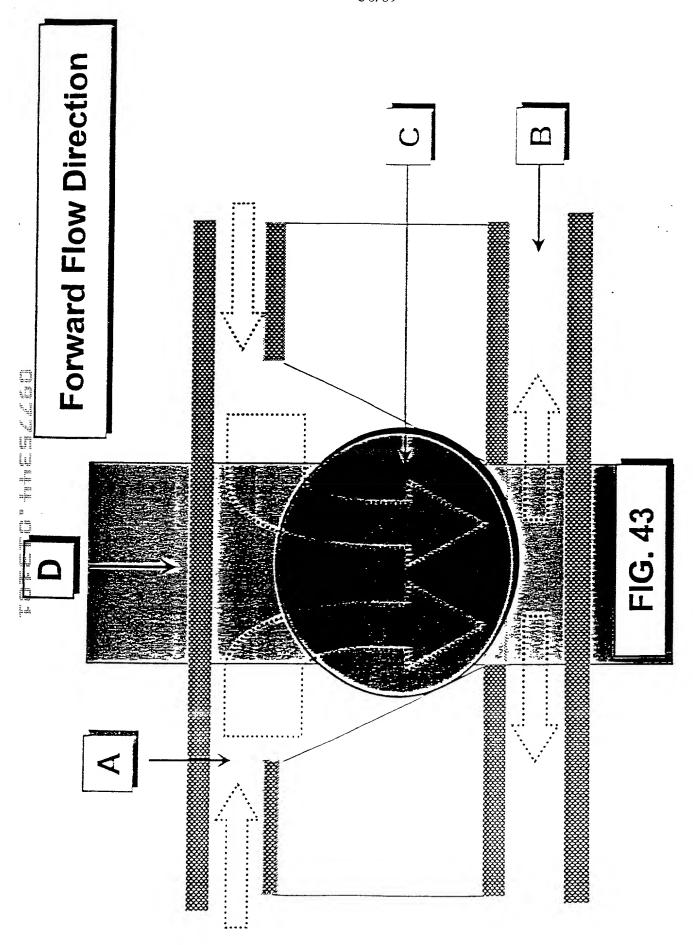


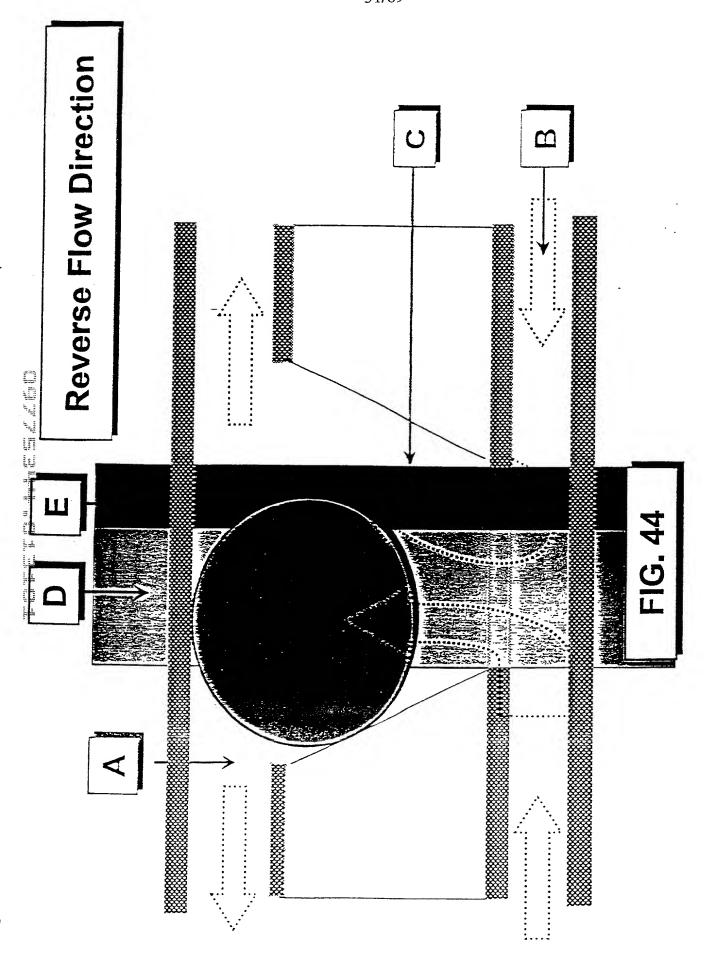


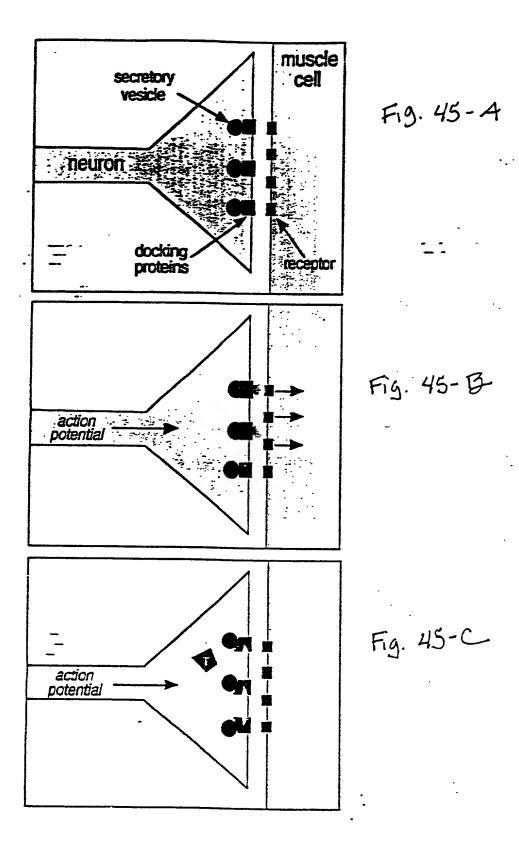


Electronic Tongue Biological Sample Acquisition Prototype 6/2/99









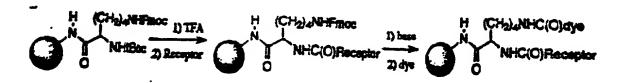
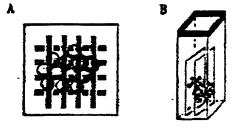
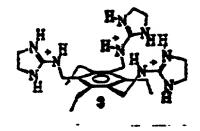


FIG. 45 D

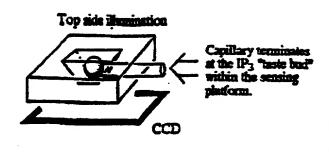


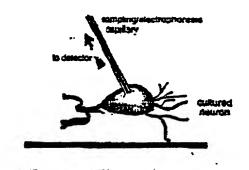
F16.46



F16. 47

F16. 48





F16.49

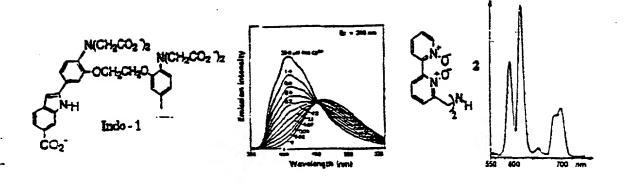


FIG. 50

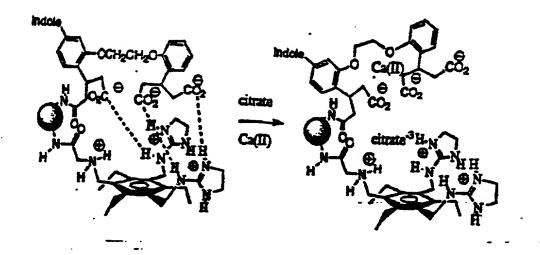
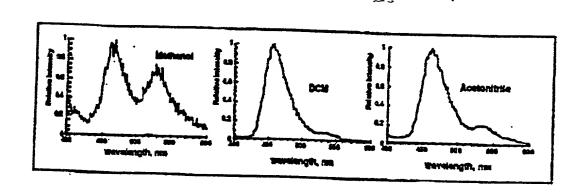
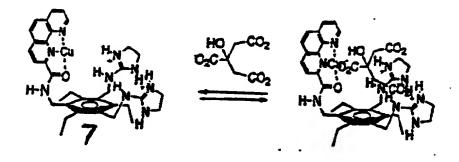


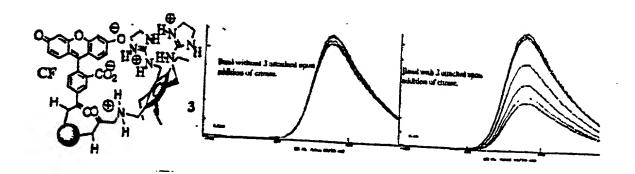
FIG. 51



F16.52



F16. 53



F15.54

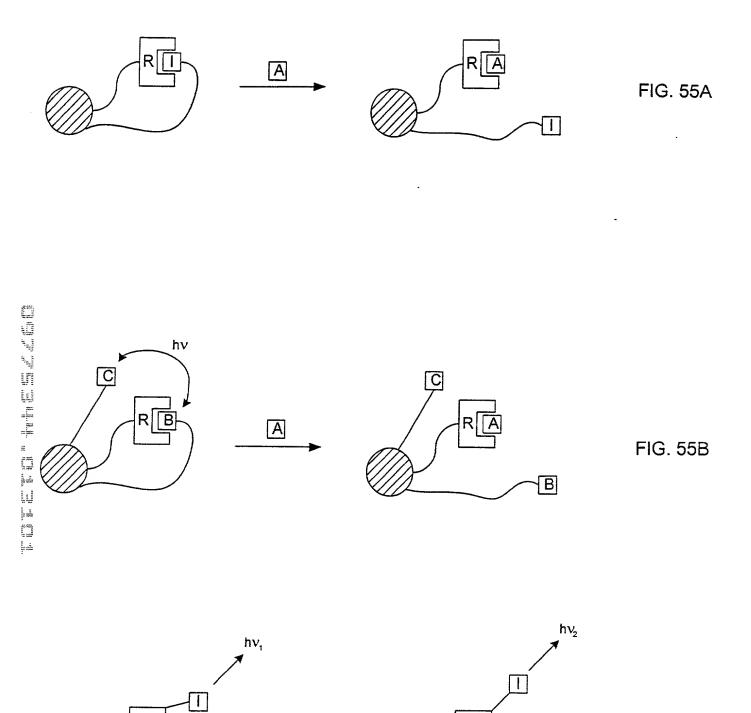
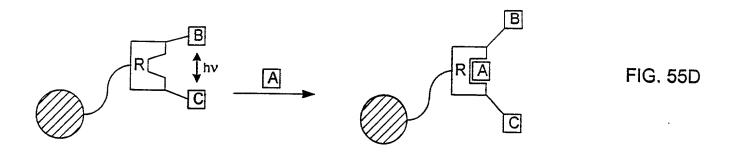
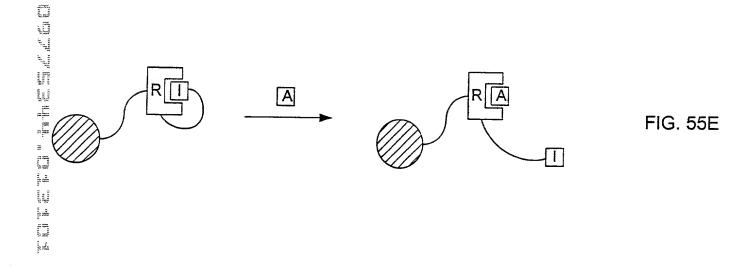
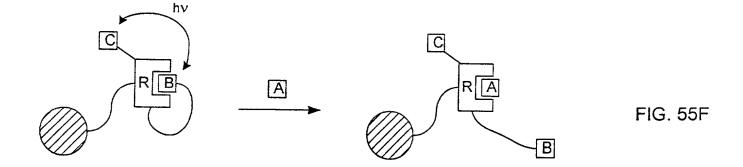


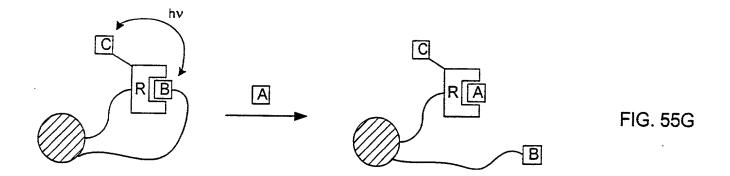
FIG. 55C

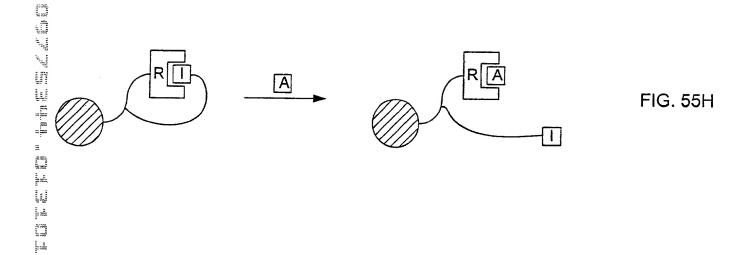
Α

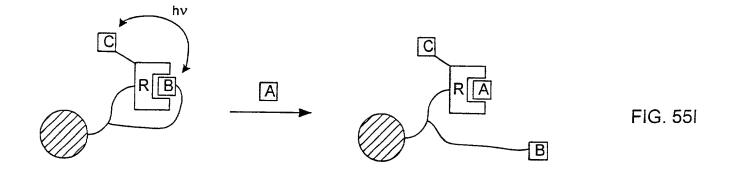












Fluorescein

FIG. 56

1

FIG. 57

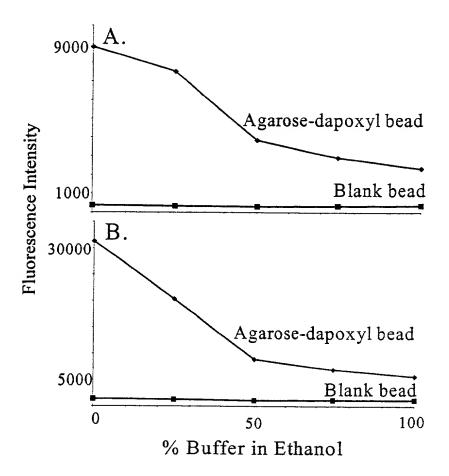


FIG. 58

FIG. 59

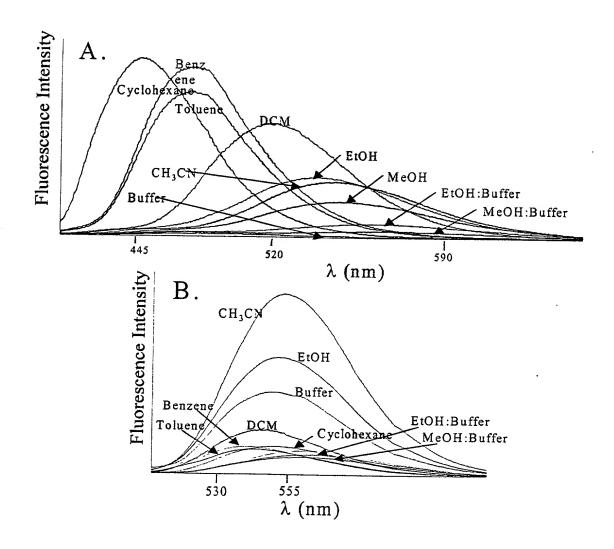
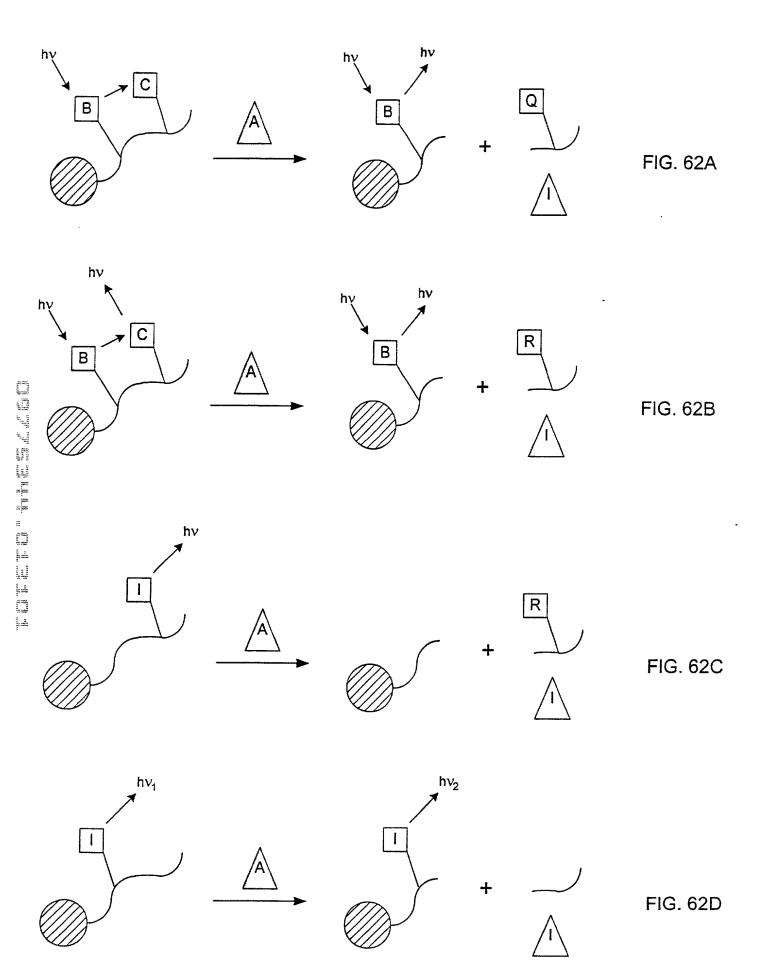


FIG. 60



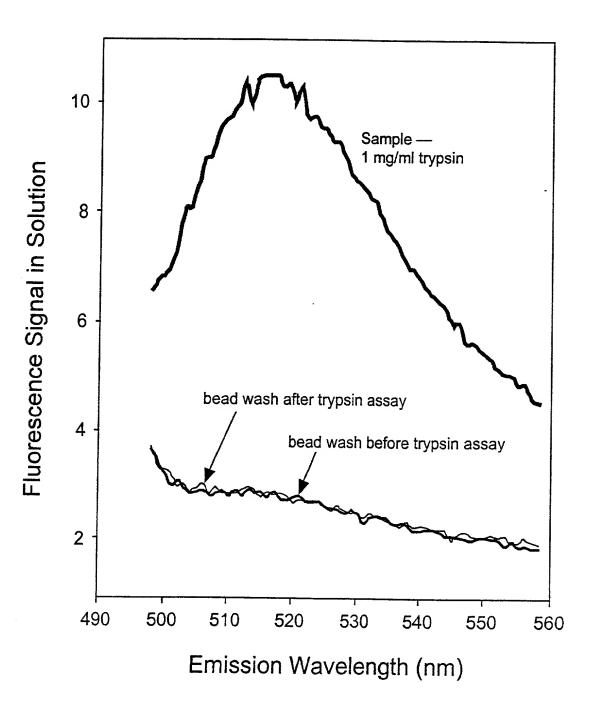


FIG. 63

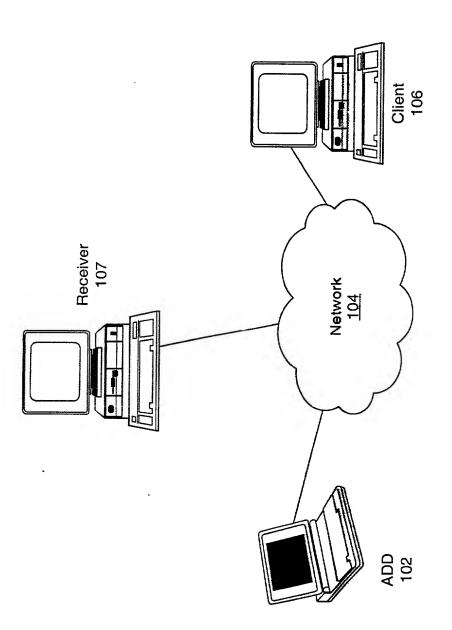


FIG. 🧆 64

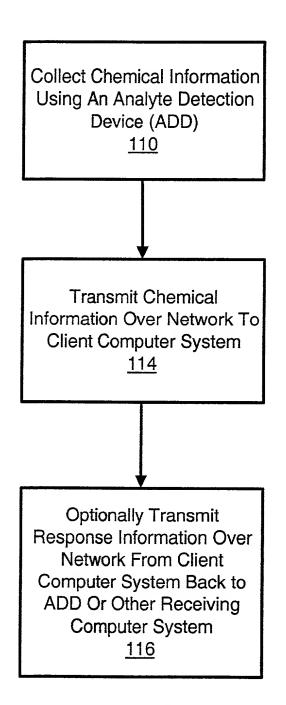


FIG. 58 65

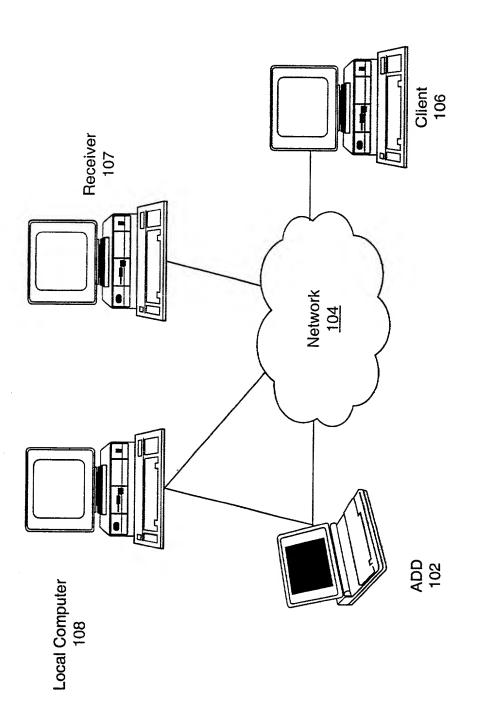


FIG. 🔊 66

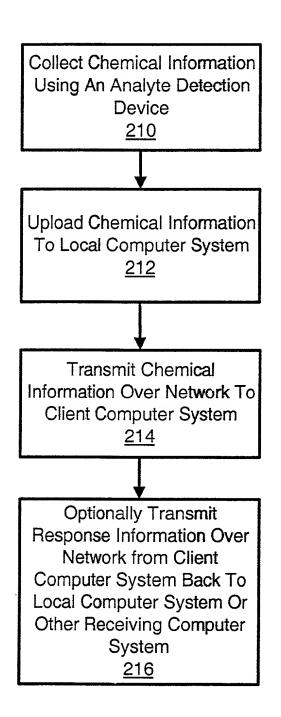


FIG. 67

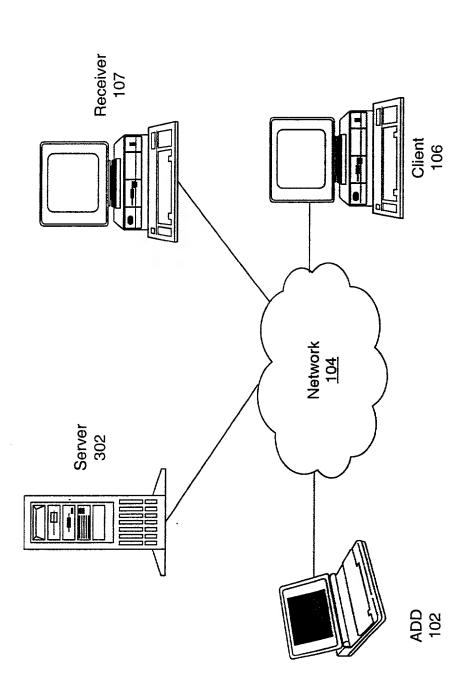


FIG. 🗱 68

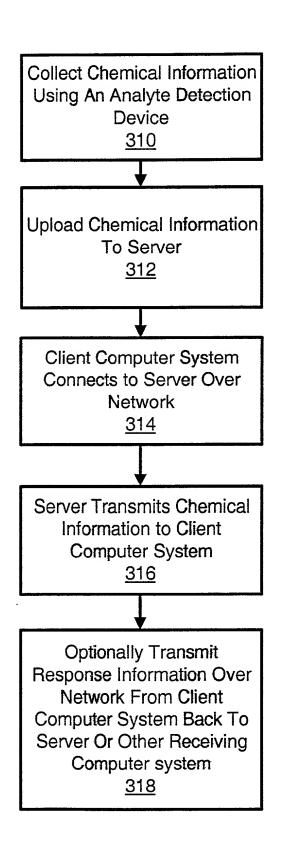


FIG. # 69

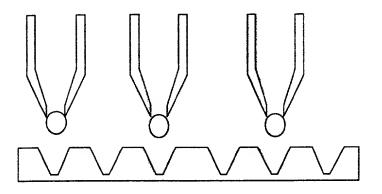


FIG. 500 704

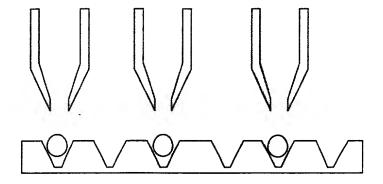


FIG. 578 70B

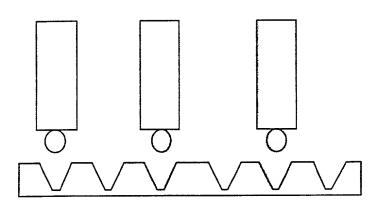


FIG. 58% 71A

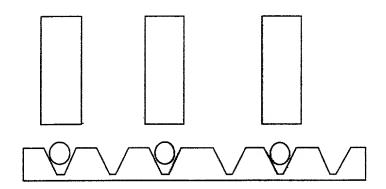


FIG. 568 713

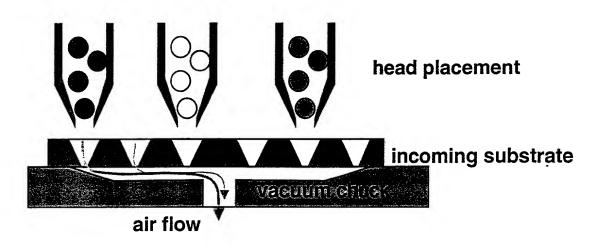
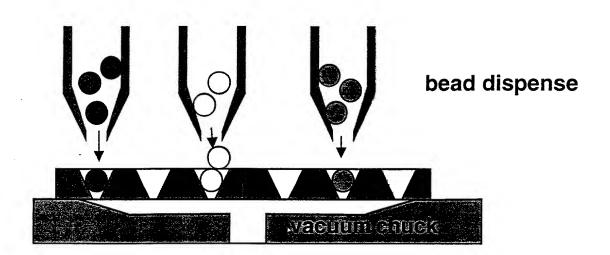


FIG. 39 72 A



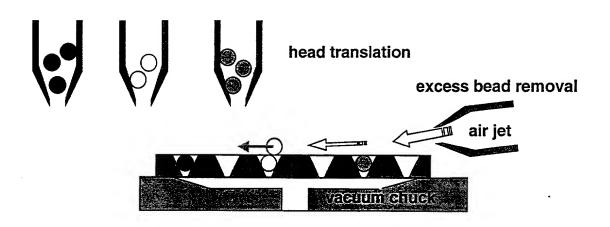


FIG. 592 72 C

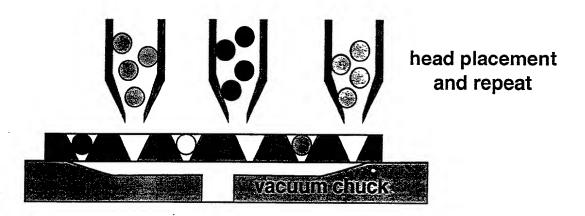
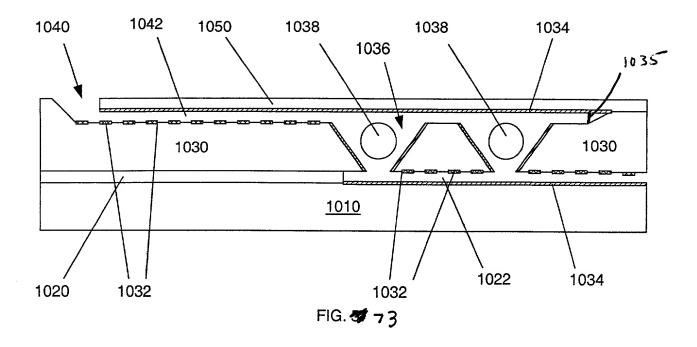
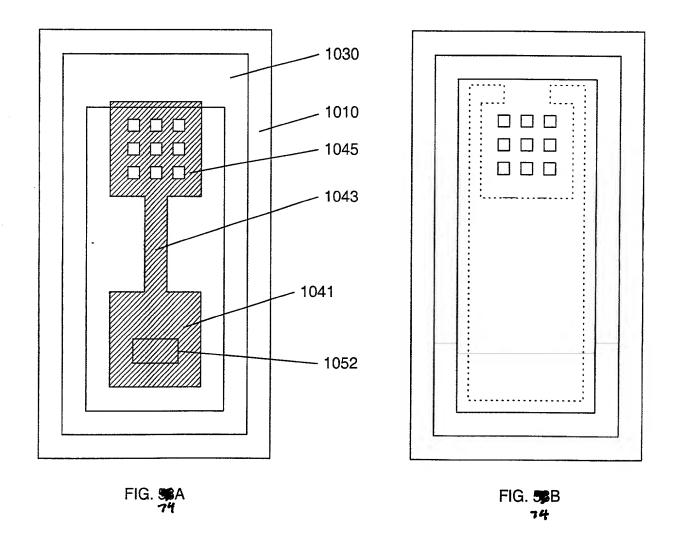
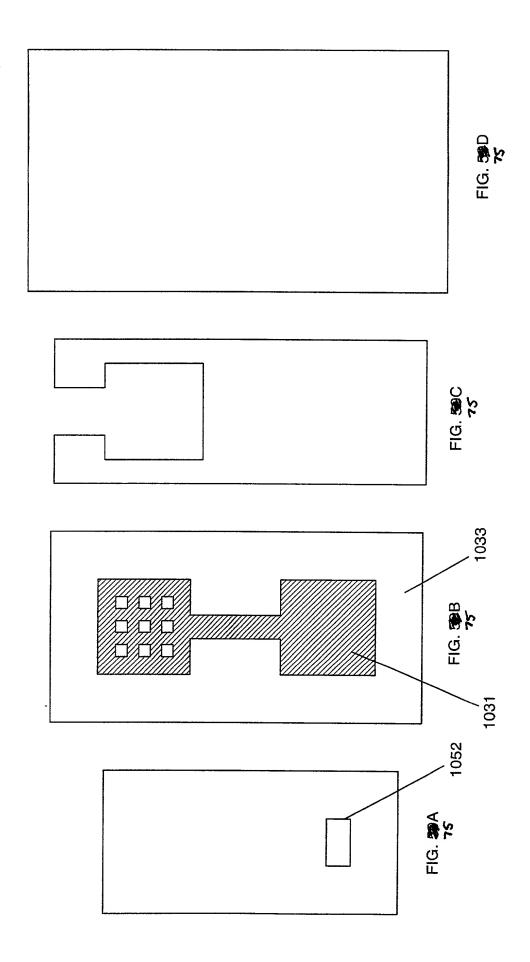


FIG. 590 729







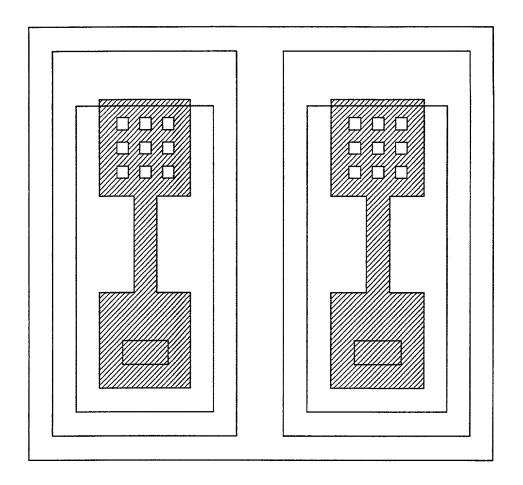
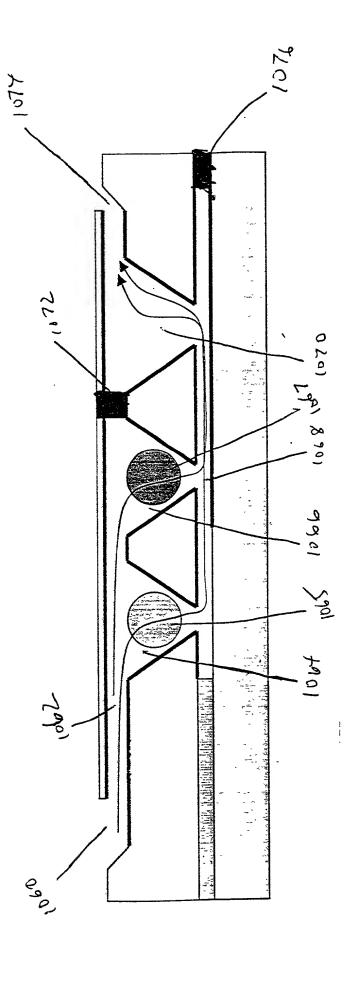


FIG. 😝 76



F16.77

1050

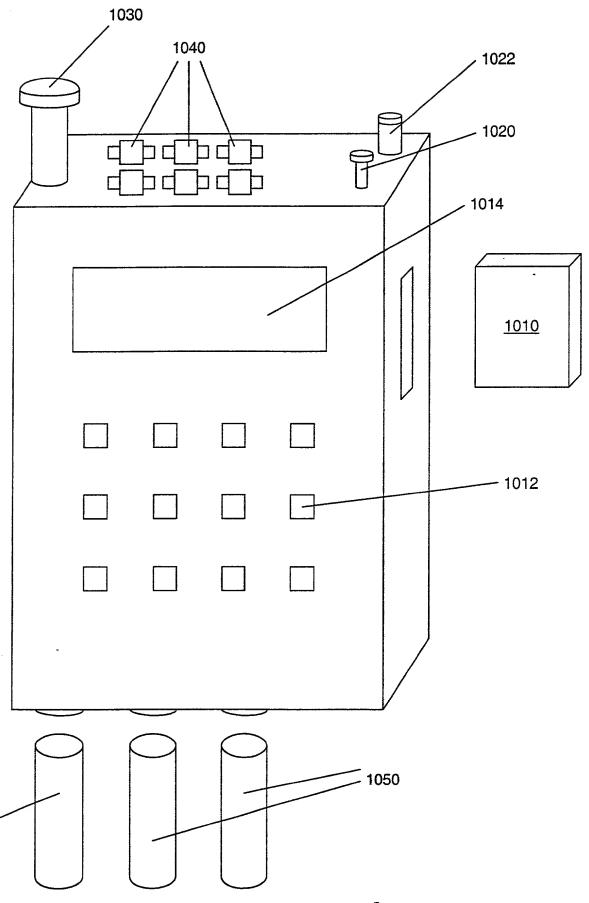


FIG. 🕏 78

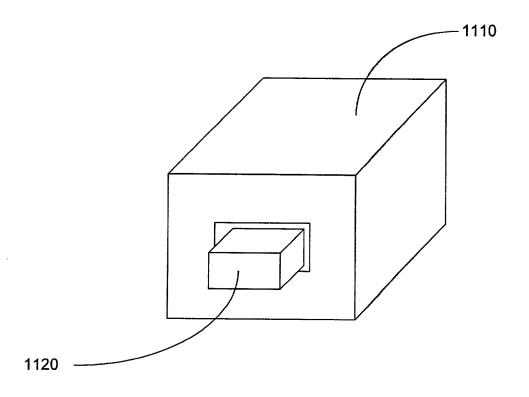
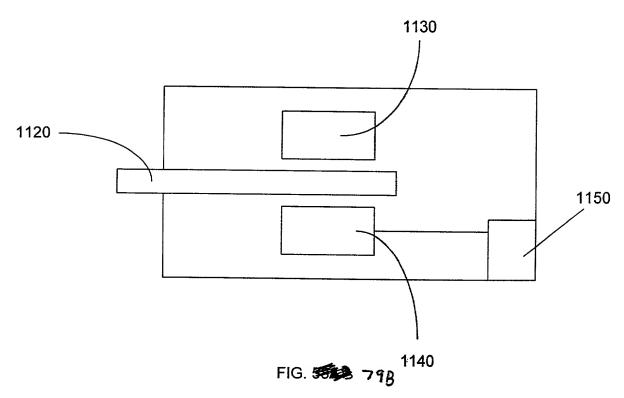
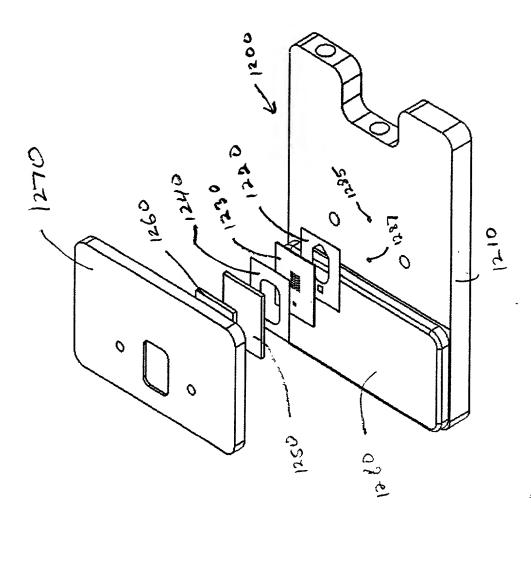
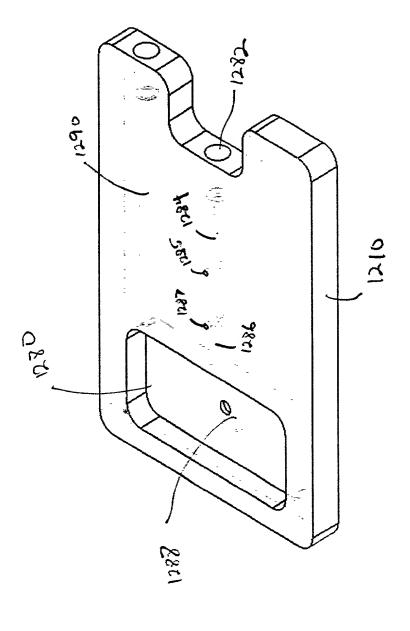


FIG. 33 79 A





116 80



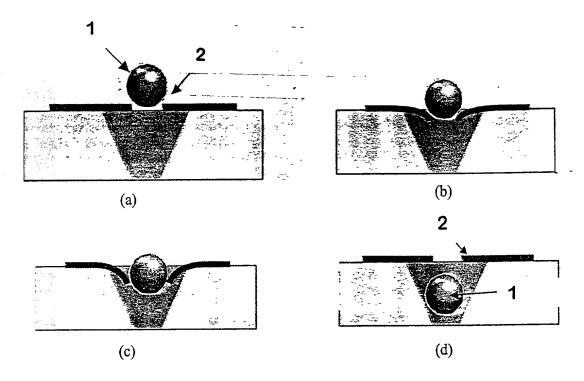


Figure \$ 82